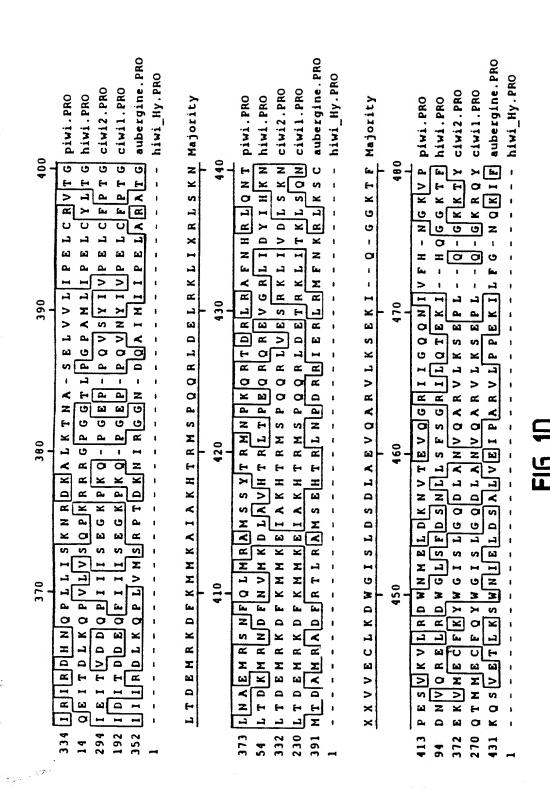
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Fig. 1A

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Fig. 1B

**-1G. 1B** 

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Fig. 1C

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Fig. 1E

	or.	NO .	02	FIG. 1E
N S Majority	piwi.PRO hiwi.PRO ciwi2.PRO ciwi1.PRO aubergine.PRO	Majority ) piwi.PRO hiwi.PRO ciwi2.PRO ciwi1.PRO aubergine.PRO	V D C Majority  600  V D R piwi.PRO T D C hiwi.PRO V E C ciwi1.PRO V E C ciwi1.PRO V D R aubergihe.PRO X X C hiwi.Hy.PRO	Majority
PGRN	520 Y T R R N Y E G P G S G N S T P S G N S	I I P D D R L E Majority  560 I I Y D D R T G piwi.PRO I S P N D Y L E ciwi2.PR I S P N D Y L E ciwi1.PR E I P D D R N G aubergin	>	OMNCKL
TNWIVIG	510  D G L D R W A V I A P O R N S H  - L D D N W L L I Y T R R N Y E  - M T N W I V I G P G S G N S  - H T N W I V I G P G S G N S  - I N R W Y V I T P S R N L R	SSOO E E I X G I I X G I I X G I I I I I I I I I	S90 SYDSIKK KYDAIKK KYDAIKK KYSCIKKBIKK	KNKNLMSIATKIALQMNCKL Majority
S N L	S & Z Z Z I	L G E P M R K L G E P M C V L G E P M C V L G E P M C V	DIGIVVVLLASDNKTRYDSIK  S80  S80  S90  DTGIVVCLLSSNRKDKYDAIK  DIHHLVVHLADDNKTRYDBLK  EIHHLVVHLADDNKTRYDBLK  DPGIVHVVHRSPNEEKYSCIK	NKNLMS
ECGIYRG	SOC	R L G S X M G V Q R A A S G M G L R K V T P A M G M O N L G R I L Q V Q R T A S S M K M N	DIQIVVULLASDNKT SBO DIQIVVCLLSSNRKD DIHHLVVHLADDNKT ELHHLVVHLADDNKT DPQIVHVVHRSPNEE	S K K
WARGVR	W W W W W W W W W W W W W W W W W W W	M M M M M M M M M M M M M M M M M M M	V G E D I Q V R S D P K V T A D T Q D G E E I H A A N D P Q	RTLA
GKQ-AD	0	S O K F I L D O K F I C O K F I C O K F I C O C K F I C O C C C C C C C C C C C C C C C C C	RAIDOC RAIDOC GAIKQV OAIDNA	SQCVTL
E	452 A 132 D Y - 409 E 307 E 470 V - C	G L - 169 A A - 444 G L L L 342 G L L L 506 E T - 1	523 T Y V 202 A Y L L 484 G V K 382 G L K S 40 T Y S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 V P

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Fig. 1F

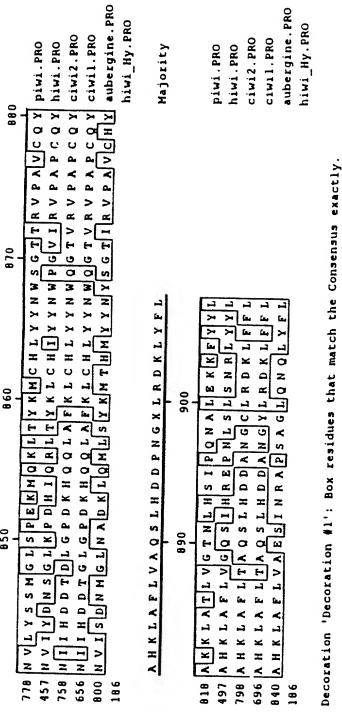
620 630 640	K K P Y S L M S I A T K I A I Q L N C K L piwi. PRO K Q Q T V M A I A T K I A L Q M N C K M hiwi. PRO K D G G E N K N L G S I V L K I V L Q M I C K T ciwi2. PRO K D G G E N K N L G S I V L K I V L Q M I C K T ciwi1. PRO Q K P T G L M S I A T K V V I Q M N A K L aubergine. PRO K Q G N M M S I A T K I A M Q M T C K L hiwi Hy. PRO	VGIDVYHDSTLKGKSVGACVAS-T Majority  660 670 680  IGFDIAKSTRDRKRAYGALIASMD piwi.PRO VGYDLYHDMTAGRRSIAGFVAS-I hiwi.PRO VGYDLYHDSTLKGKTVGACVST-T ciwi2.PRO VGYDLYHDSTLKGKTVGACVST-T ciwi2.PRO VGYDLYHDSTLKGKTVGACVST-T ciwi1.PRO VGYDLXHDSTLKGKTVGACVST-T ciwi1.PRO VGYDLXHDSTLKGKTVGACVST-T ciwi1.PRO VGIDVCKDALSKDVMVVGCVAS-V hiwi_Hy.PRO	TELGNNLTVFVAKALROY-DSND Majority  700 710 720 DVLANTLWPHIAKALROY-QHEH piwi.PRO GELVDGLKVCLQAALRAW-NSCH hiwi.PRO TQLGNNLTHYVRKALKQYYDNND CIWIZ.PRO TQLGNNLTHYVRKALKQYYDNND CIWIZ.PRO TQLGNNLTHYVRKSLKQYYDNND CIWIZ.PRO TGLGNNLTHYVRKSLKQYYDNND CIWIZ.PRO TDLGNKTHYVRKSLKQYYDNND CIWIZ.PRO TDVADCLKVFMTGALNKW-YKYN hiwi Hy.PRO
610	563 A V P T Q V V T L K T T K  242 P T P S Q C V V A R T L G  524 P I P N Q C V N L R T L A G K S K  422 P I P N Q C V N L R T L A G K S K  580 P V P 9 Q V V T L K V I A P R Q Q  11 P V P S Q C V X A R T L N	650 596 G Y T P W H I B L P L K G L M I V G 275 G G B L W R V D I P L R L V M I V G 564 G G A L W R V N I P L R N T M I V G 617 M G A P W Q V V I P L H G L M T V G 617 M G A P W Q V V I P L H G L M T V G 44 G G E L W A V B I P L R S L M V V G	636 LQQNSTYFFSTVIEHENGT 636 LQQNSTYFSTVTECSAFD 314 NEGMTRWFSRCIFQDRGQ 603 SNDFTQFYBQTRPHENPT 501 SNDFTQFYBQTRPHENPT 657 OKESFRYFSTVNEHIKGQ

FIG. 1

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Fig. 1G

D I. Majority		piwi.PRO hiwi.PRO ciwi2.PRO ciwi1.PRO aubergine.PRO	Majority	piwi.PRO hiwi.PRO ciwi2.PRO ciwil.PRO aubergine.PRO hiwi_Hy.PRO	S Y Majority  840	hiwi.PRO ciwi2.PRO ciwi1.PRO aubergine.PRO hiwi_Hy PRO	Majority FIG. 1G
ATT PSATIVE BOOK OF COLKIT VATEVE	730 740 750	675 RKLPSRIVEYRDGVSSGSLKQLFEFEVK DIIEKL P 353 EYHPSRIIVYRDGVGDGQLKTLVNYEVF QFLDCL P 643 QTLPSRLILLYRDGAGDGQIPYIKNTEVKLVRDACDAVTDK C 541 KTLPSRLILLYRDGAGDGQIPYIKNTEVKLVRDACDAVTDK C 696 RSLPERILFFRDGVGDGQLYQVVNSEVN TLKDRL A 122 HDLPARIIVYRAGVGDGQLYQVVNSEVN QLLSSV P	AAELSSKVQEKI-RLAFIVVTKRVNTRFFTQGSH 770 780 790 800	709 K T E Y A R V Q L S P P - Q L A Y I V V T R S M N T R F L N G O P  387 K S I G R G Y N P - R L T V I V V K K R V N T R F F A Q S G G R L Q h  683 A A E L S N K V Q E K I - K L A F I I V T K R V N M R I L K Q G S S L D c  581 A A E L S N K V Q E K I - K L A F I I V T K R V N M R I L K Q G S S S K c  730 D E I Y K S A G K Q E G C R M T F I I V S K R I N S R Y F T G H R S S S N T S S - R L S V I V V R K C M P R F T	NPQPGTVVDTVVTRPERYDFYLVSQAVRQGTVSPTSYM 810 820 830 840	LPGTVIDVEVTRPEWYDFFIVSOAVRSGSVSPTHY QPGTVVDTTVTRPERMDFYLVPQFVNQGTVTPVSY VPGTVVDDVITLPERYDFFLVSQAVRIGTVSPYSY	NVIHDDTGLGPDKHQQLAYKLCHLYYNWSGTVRVPAPCQY M

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Decoration 'Decoration #2': Shade (with black at 10% fill) residues that match hiwi\_Hy.PRO exactly.

#C. #

## SEQUENCE ALIGNMENT

60	120	180	
266	326	386	
SIKKYLS CPVPSQCV ARTLNKQGMMMSIATKIAMQMTCKLGGELWAVEIPLKSLMVV 60	GIDVCKDALSKDVMVVGCVASVNPRITRWFSRCILQRTMTDVADCLKVFMTGALNKWYKY 120	121 NHDLPARIIVYRAGVGDGQLKTLIEYEVPQLLSSVAESSSNTSSRLSVIVVRKKCMPRFF 180	TEMNRT 186
SIKKYLS <u>SD</u> CPVPSQCV <u>L</u> ARTLNKQGMMMSIATKIAMQMTCKLGGELWAVEIPLKSLMVV 266	GIDVCKDALSKDVMVVGCVASVNPRITRWFSRCILQRTMTDVADCLKVFMTGALNKWYKY 326	327 NHDLPARIIVYRAGVGDGQLKTLIEYEVPQLLSSVAESSSNTSSRLSVIVVRKKCMPRFF 386	TEMNRT 392
1	61		181
207	267		387
SEQ ID NO:2	SEQ ID NO:2	SEQ ID NO:2	SEQ ID NO:2
SEQ ID NO:9	SEQ ID NO:9	SEQ ID NO:9	SEQ ID NO:9
SEQ	SEQ SEQ	SEQ	S E

(336.7 bits), Expect = 3.0e-100,

Positives

(886)

183/186

11

Identities Score =

942